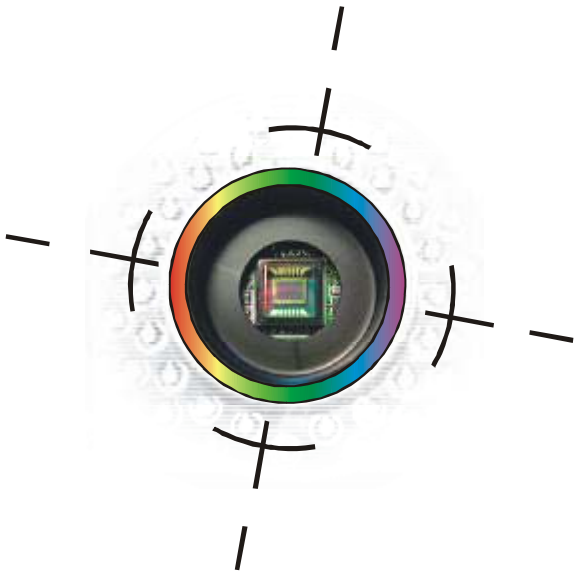
CP CAM



Operating Instructions

User's Manual

Please read this instruction thoroughly before operation and retain it for future reference.

REGULAR EU-V1.1

Thank-You Note Before You Get Start

First of all, we would like to express our gratitude to you for purchasing CPcam products. Once again, this product is designed uniquely to meet all your personal needs with our great industry-designing ability and our everlasting perseverance to the quality of all our products.

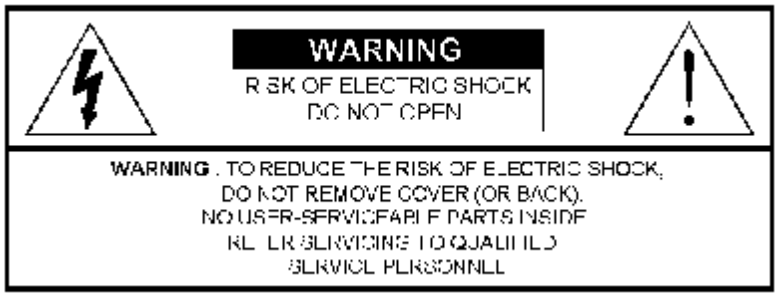
This manual will introduce you how to install this camera. Please keep it well for your future reference.

Now, we would like to invite you to personally experience this user-friendly manual and all of the powerful functions this CPcam product offers.

http://www.avc.com.hr

WARNING

The apparatus shall not be exposed to dripping. No objects filled with liquids, such as vases, shall be placed around the apparatus.


WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
WARNING . TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within enter the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance-(servicing) instructions in the literature accompanying the appliance.

PACKAGE CONTENT

CONNECTION

STEP 1. Mount the lens onto the camera.

STEP 2. Set the lens selection switch (AES/AI).

STEP 3. Connect the camera video output and the monitor video input with a 75Ω coaxial cable.

STEP 4. Connect the camera audio output and the monitor audio input with a coaxial cable.

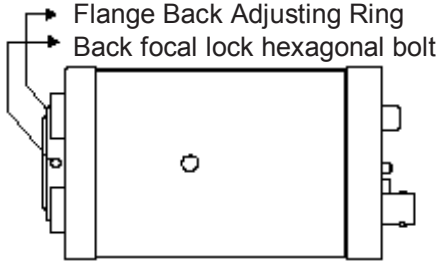
STEP 5. Connect the power terminal of the camera to a right power supply.

STEP 6. Adjust the focus or flange-back. (refer to page 3)

ATTENTION: When using DC 12V camera, it must connect with regulated power adaptor **ONLY**.

FOCUS OR FLANGE-BACK ADJUSTMENT

The following adjustment should be made by qualified service personnel or system installers.



1. Mount the lens by turning it clockwise on the lens mount of the camera.
2. Loosen the screws on the flange-back adjusting ring.
3. Turn the flange-back adjusting ring to the desired position.
4. Tighten the hexagonal bolt on the flange-back adjusting ring with the HEX wrench.

AUTO IRIS LENS CONNECTOR INSTALLATION

Installation of Auto Iris Lens Connector

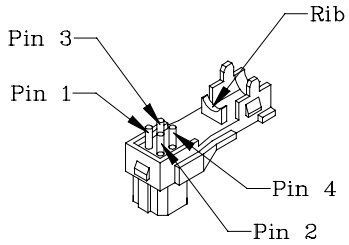
Install the lens connector when using auto Iris Lens.

The installation should be accomplished by qualified technician or system installers.

Cut the iris control cable at the edge of the lens connector to remove the existing lens connector and then remove the outer cable cover of the supplied connector as shown in the diagram.

The pin assignment of the auto iris lens connector is as follows:

	Video Drive Lens	Direct Drive Lens
Pin 1:	Power source	Damp-
Pin 2:	Video signal	Damp+
Pin 3:	Not used	Driver+
Pin 4:	Ground, Shield	Driver-



Solder the lens cable to the pins of the supplied connector.

FEATURES

CP	111	211	212	213	311	312	313	315	316
Sony CCD sensor		●	●	●	●	●	●	●	●
High Resolution				●			●		●
Min.Illumination 0.06Lux / F1.2 / 30 IRE	●								
Min.Illumination 0.1Lux / F1.2 / 50 IRE		●	●		●	●		●	
Min.Illumination 0.25Lux / F1.2 / 50 IRE				●			●		●
V.D / D.D / AES selectable	●	●	●	●	●	●	●	●	●
Signal-to-Noise ratio is more than 48dB (AGC off)	●	●	●	●	●	●	●	●	●
Backlight compensation ON/OFF selectable		●	●	●	●	●	●	●	●
White balance mode ATW/HOLD selectable		●	●	●			●		●
Support audio function	●	●	●	●	●	●	●	●	●
DAY & NIGHT function, compatible with IR lens			●			●			
Flickerless ON PAL:1/120 /OFF selectable					●	●	●	●	●
Color rolling Less ON/OFF selectable							●		●

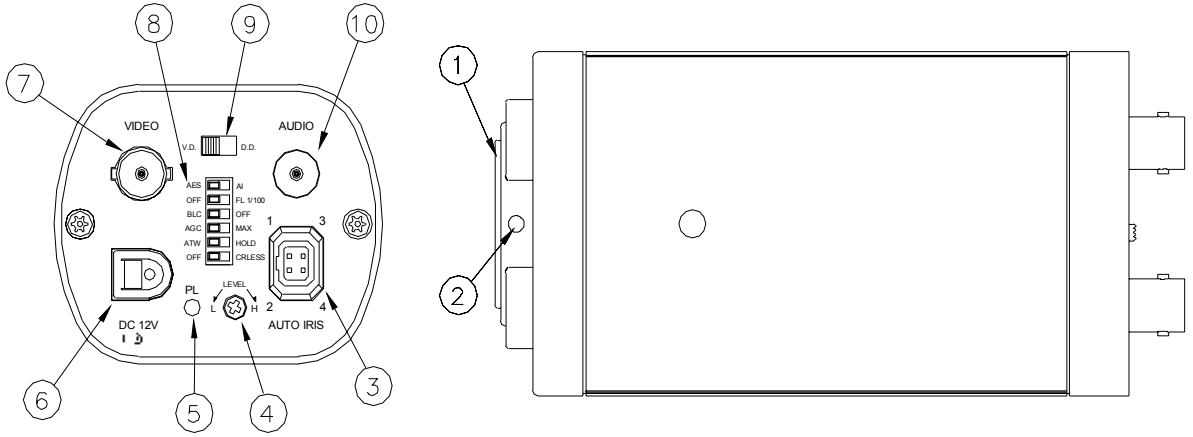
SPECIFICATION

Model	CPC111	CPC211	CPC212
Pick up Element	1/3" B / W CCD sensor	1/3" Sony Color CCD sensor	
Resolution	Standard		
Min. Illumination	0.06 Lux / F1.2	0.1 Lux / F1.2	
Number of Pixel	500 (H) x 582 (V) <CCIR>	500 (H) x 582 (V) <PAL>	
S / N Ration	More than 48dB (AGC off)		
Electronic Shutter	1/60(1/50) to 1/100,000 sec.		
Iris Mode	V.D / D.D / AES selectable		
White Balance	-	Hold / ATW	
BLC	-	ON / OFF	
AGC	Auto		
Sharpness	-	Soft / Sharp	
Microphone	Yes		
Video Output	1.0 Vp-p composite, 75Ω		
Lens Mount	C / CS mount changeable		
Power Source	DC12V ± 10% regulated		
Current Consumption	120 mA	110 mA	
Operating Temperature	0℃ ~40 ℃		
Dimension (mm)	65.5 (W) x 50 (H) x 107.3 (L)		
Gross Weight	356g		

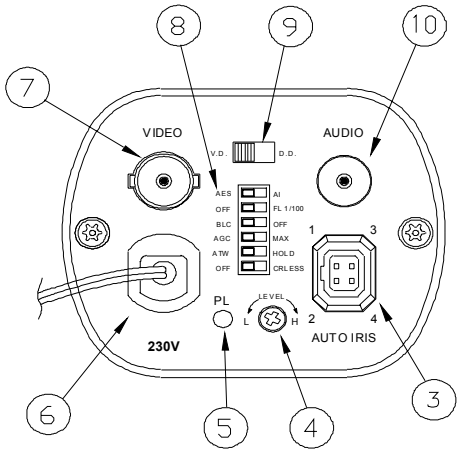
Model	CPC213	CPC311	CPC312
Pick up Element	1/3" Sony Color CCD sensor	1/3" Sony Color CCD sensor (W / Sony DSP)	
Resolution	H.R.	Standard	
Min. Illumination	0.25 Lux / F1.2	0.04 Lux / F1.0	
Number of Pixel	752 (H) x 582 (V) <PAL>	500 (H) x 582 (V) <PAL>	
S / N Ration	More than 48dB (AGC off)		
Electronic Shutter	1/60(1/50) to 1/100,000 sec.		
Iris Mode	V.D / D.D / AES selectable		
Flickerless	-	ON PAL:1/120 / OFF selectable	
White Balance	Hold / ATW	ATW	
BLC	ON / OFF		
AGC	Auto	Normal / Max	
Sharpness	Soft / Sharp	-	
Microphone	Yes		
Video Output	1.0 Vp-p composite, 75Ω		
Lens Mount	C / CS mount changeable		
Power Source	DC12V ± 10% regulated		
Current Consumption	110 mA	120 mA	
Operating Temperature	0℃ ~40 ℃		
Dimension (mm)	65.5 (W) x 50 (H) x 107.3 (L)		
Gross Weight	356g		

Model	CPC313	CPC315	CPC316
Pick up Element	1/3" Sony Color CCD sensor (W / Sony DSP)		
Resolution	H.R.	Standard	H.R.
Min. Illumination	0.18 Lux / F1.2	0.04 Lux / F 1.0	0.18 Lux / F1.2
Number of Pixel	752 (H) x 582 (V) <PAL>	500 (H) x 582 (V) <PAL>	752 (H) x 582 (V) <PAL>
S / N Ration	More than 48dB (AGC off)		
Electronic Shutter	1/60(1/50) to 1/100,000 sec.		
Iris Mode	V.D / D.D / AES selectable		
Flickerless	ON PAL:1/120 / OFF selectable		
White Balance	Hold / ATW	ATW	Hold / ATW
BLC	ON / OFF		
AGC	Normal / Max		
CRLESS	ON / OFF	-	ON / OFF
Microphone	Yes		
Video Output	1.0 Vp-p composite, 75Ω		
Lens Mount	C / CS mount changeable		
Power Source	DC12V ± 10% regulated	AC24V / DC12V ± 10%; AC230V ± 10%	
Current Consumption	160 mA	3 W	
Operating Temperature	0℃ ~40 ℃		
Dimension (mm)	65.5 (W) x 50 (H) x 107.3 (L)		
Gross Weight	356g	616g	

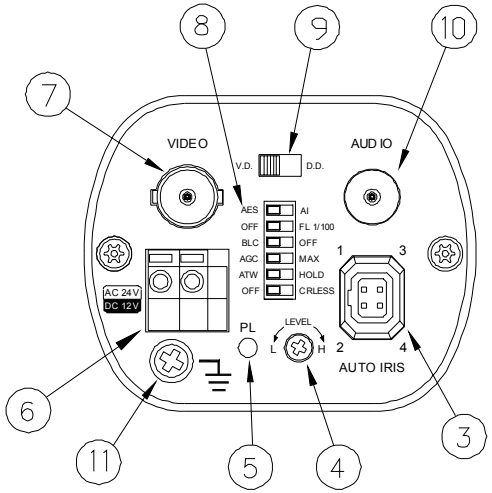
MAJOR OPERATING CONTROL AND FUNCTIONS



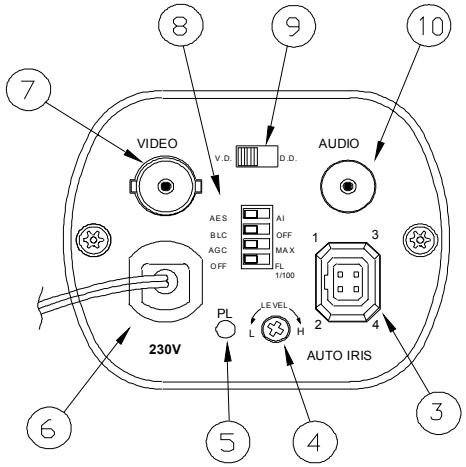
(313)



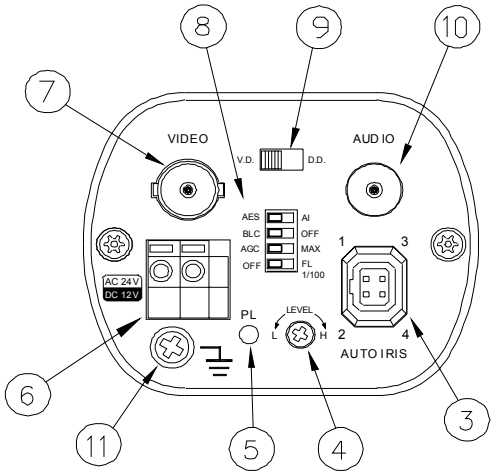
(316 AC230V)



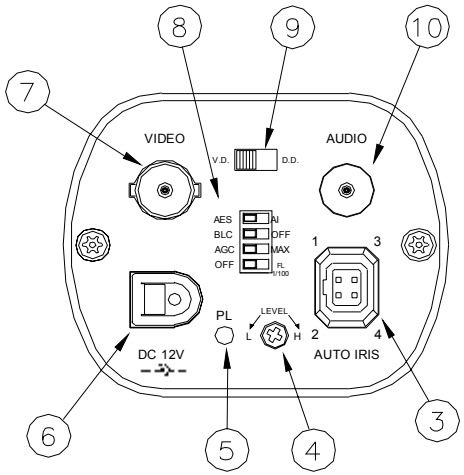
(316 AC24V/DC12V)



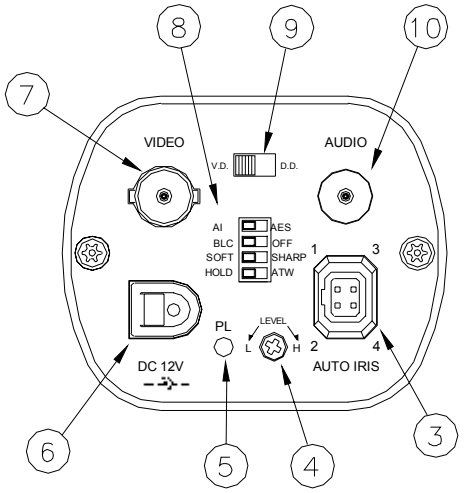
(315 AC230V)



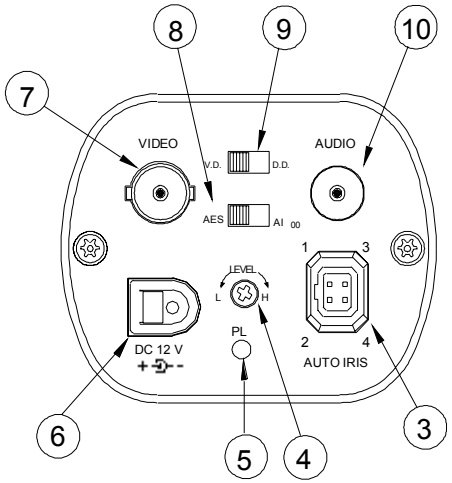
(315 AC24V/DC12V)



(311 / 312)



(211 / 212 / 213)


8
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VIDEO
V.D.
D.D.
AUDIO
AES
AI
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LEVEL
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DC 12 V
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AUTO IRIS
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4
3

(111)

The pin assignment of the Auto Iris Lens connector is as follows:

1. **Flange Back Adjusting Ring**
   It is suitable for CS-mount lens. When using C-mount lens, please use the CS-C conversion Ring.
2. **Back focal lock hexagonal bolt**
   The camera is set at the standard back focal position. Fine-tuning is inevitable according to the lens types. Adjust the lens back-focus by turning the focusing knob.
3. **Auto Iris Lens Connector**
   It supplies power and controls signal to an Auto Iris Lens.
4. **DC Drive Level adjusting V.R**
   When using Direct Drive Lens, you can adjust the DC Drive Level for the bright of video output.
5. **Power LED Indicator**
   The Power LED Indicator indicates normal status during operation.
6. **Power Input Terminal**
   ***** For connecting the DC 12V regulated power supply.
   ***** For connecting the AC 24V / DC 12V regulated power supply.
   * For connecting to the regulated AC 100V / AC 230V power supply.
7. **Video Output Connector (VIDEO OUT)**
   For connecting coaxial cable to CCTV monitor video input.

8. Function Select

1) AES/AI switch: AES(Automatic Electronic Shutter) – When using a manual iris lens or fixed iris lens, set this switch to AES. AI (Auto Iris Lens Connector) – This connector is used to connect with the auto iris by a 4 pin male connector.
2) OFF/FL 1/100 (NTSC) .FL 1/100 is Flickerless 1/100 (means shutter fixed at 1/100 second) OFF/FL 1/120 (PAL) .FL 1/120 is Flickerless 1/120 (means shutter fixed at 1/120 second)
3) BLC(Backlight Compensation): Allows you to select the mode according to the position of the object and light conditions on the screen.
4) AGC(Automatic Gain Control): Automatically adjust the image to compensate for low levels of illumination.
5) ATW/HOLD: Select White Balance mode between Auto Tracing White balance and HOLD white balance.
6) CRLESS: Decrease color rolling (Color rolling means image running under illumination of fluorescent lamp. The image will shift from white color to bluish, pinkish and back to white over again. This problem is caused by the AC power which is running 0n 50/60 Hz.).

Note: When the function "CRLESS" is ON, the function "hold white balance" is invalid.

9. V.D. / D.D. selectable

Auto Iris Lens selectable between Video Type (V.D.) and DC type (D.D.).

10. Audio Output Connector (AUDIO OUT)

For connecting the AUDIO IN connector of the recording device.

11. Ground screw Terminal

For connecting with the ground (earth) of power supply cable.